

## Review Exercise Set 9

Exercise 1: Solve for x.

$$x + 3 = 9$$

Exercise 2: Solve for x.

$$x - 8 = 21$$

Exercise 3: Solve for y.

$$7y = -21$$

Exercise 4: Negative three times a number equals thirty-three. Find the number.

Exercise 5: The cost of a textbook today is \$10 lower than the cost last semester. The cost of the textbook today is \$35. What was the cost of the textbook last semester?

## Review Exercise Set 9 Answer Key

Exercise 1: Solve for x.

$$\begin{aligned}x + 3 &= 9 \\x + 3 - 3 &= 9 - 3 \\x &= 6\end{aligned}$$

Exercise 2: Solve for x.

$$\begin{aligned}x - 8 &= 21 \\x - 8 + 8 &= 21 + 8 \\x &= 29\end{aligned}$$

Exercise 3: Solve for y.

$$\begin{aligned}7y &= -21 \\7y \div 7 &= -21 \div 7 \\y &= -3\end{aligned}$$

Exercise 4: Negative three times a number equals thirty-three. Find the number.

$$\begin{aligned}x &= \text{a number} \\-3x &= \text{negative three times a number} \\-3x &= 33 \\-3x \div -3 &= 33 \div -3 \\x &= -11\end{aligned}$$

Exercise 5: The cost of a textbook today is \$10 lower than the cost last semester. The cost of the textbook today is \$35. What was the cost of the textbook last semester?

$$\begin{aligned}x &= \text{cost of textbook last semester} \\x - 10 &= \text{cost of textbook today} \\x - 10 &= 35 \\x - 10 + 10 &= 35 + 10 \\x &= 45\end{aligned}$$

**The cost of the textbook last semester was \$45.**